The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Currently Amended) A method [[of]] comprising the steps of: forming an insulating film comprising silicon oxide formed over a glass substrate, wherein the insulating film includes halogen at a concentration of 5 x 10<sup>20</sup> cm<sup>-3</sup> or less and carbon at a concentration of 5 x 10<sup>19</sup> cm<sup>-3</sup> or less which are detected by second secondary ion mass spectroscopy.
- 2. (Previously Presented) A method according to claim 1, wherein the halogen is chlorine.
- 3. (Currently Amended) A method according to claim 1, wherein the insulating film includes carbon at a concentration of 1 x 10<sup>18</sup> cm<sup>-3</sup> or less which is detected by the second secondary ion mass spectroscopy.
- 4. (Original) A method according to claim 1, wherein said insulating film is a gate insulating film.
- 5. (Original) A method according to claim 1, wherein the insulating film is an insulating film in a thin film transistor.
- 6. (Original) A method according to claim 1, wherein the insulating film covers an even surface over the glass substrate.

- 7. (Original) A method according to claim 1, wherein the insulating film includes halogen at a concentration of 1 x  $10^{17}$  cm<sup>-3</sup> or more.
- 8. (Original) A method of producing a semiconductor device, said method comprising the steps of:

forming a crystalline semiconductor island formed over a glass substrate; and forming an insulating film including silicon oxide formed to cover the crystalline semiconductor island.

wherein the insulating film includes halogen at a concentration of 5 x  $10^{20}$  cm<sup>-3</sup> or less and carbon at a concentration of 5 x  $10^{19}$  cm<sup>-3</sup> or less.

- 9. (Original) A method according to claim 8, wherein the concentrations of halogen and carbon are detected by secondary ion mass spectroscopy.
- 10. (Previously Presented) A method according to claim 8, wherein the halogen is chlorine.
- 11. (Original) A method according to claim 8, wherein the insulating film is formed by plasma chemical vapor deposition using an organic silane.
- 12. (Original) A method according to claim 8, wherein the insulating film includes halogen at a concentration of  $1 \times 10^{17}$  cm<sup>-3</sup> or more.
- 13. (Currently Amended) A method of fabricating a thin film transistor, said method comprising the steps of:

forming a crystalline semiconductor island formed over a glass substrate: forming a silicon oxide film formed over the crystalline semiconductor island; and

forming a conductive film including at least one <u>of</u> aluminum, titanium, and titanium nitride, said conductive film being formed on the silicon oxide film,

wherein the silicon oxide film includes halogen at a concentration of 5 x  $10^{20}$  cm<sup>-3</sup> or less and carbon at a concentration of 5 x  $10^{19}$  cm<sup>-3</sup> or less.

- 14. (Previously Presented) A method according to claim 13, wherein the halogen is chlorine.
- 15. (Original) A method according to claim 13, wherein the silicon oxide film is formed by plasma chemical vapor deposition using an organic silane.
- 16. (Original) A method according to claim 13, wherein the silicon oxide film includes halogen at a concentration of 1 x  $10^{17}$  cm<sup>-3</sup> or more.
- 17. (Original) A method of fabricating a thin film transistor, said method comprising the steps of:

forming a crystalline semiconductor island formed over a glass substrate;

forming a gate insulating film including silicon oxide formed on the crystalline semiconductor island; and

forming a gate electrode formed on the insulating film,

wherein the gate insulating film includes halogen at a concentration of  $5 \times 10^{20}$  cm<sup>-3</sup> or less and carbon at a concentration of  $5 \times 10^{19}$  cm<sup>-3</sup> or less.

- 18. (Previously Presented) A method according to claim 17, wherein the halogen is chlorine.
- 19. (Original) A method according to claim 17, wherein the gate insulating film is formed by plasma chemical vapor deposition using an organic silane.

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- 20. (Original) A method according to claim 17, wherein the gate insulating film includes halogen at a concentration of 1 x 10<sup>17</sup> cm<sup>-3</sup> or more.
- 21. (Previously Presented) A method according to claim 1, wherein the halogen is fluorine.
- 22. (Previously Presented) A method according to claim 8, wherein the halogen is fluorine.
- (Previously Presented) A method according to claim 13, wherein the 23. halogen is fluorine.
- 24. (Previously Presented) A method according to claim 17, wherein the halogen is fluorine.
- 25. (Previously Presented) A method of fabricating a thin film transistor, said method comprising the steps of:

forming at least a thin film transistor including a crystalline semiconductor island, a gate electrode adjacent to the crystalline semiconductor island with a gate insulating film interposed therebetween;

forming an interlayer insulating film comprising silicon oxide over the thin film transistor.

wherein the interlayer insulating film includes halogen at a concentration of 5 x 10<sup>20</sup> cm<sup>-3</sup> or less and carbon at a concentration of 5 x 10<sup>19</sup> cm<sup>-3</sup> or less.

(Previously Presented) A method according to claim 25, wherein the halogen is chlorine.

- 27. (Previously Presented) A method according to claim 25, wherein the halogen is fluorine.
- (Previously Presented) A method according to claim 25, wherein the 28. interlayer insulating film is formed by plasma chemical vapor deposition using an organic silane.
- (Previously Presented) A method according to claim 25, wherein the 29. interlayer insulating film includes halogen at a concentration of 1 x 10<sup>17</sup> cm<sup>-3</sup> or more.
- 30. (Previously Presented) A method of manufacturing a semiconductor device comprising:

forming a gate insulating film comprising silicon oxide on a channel region by plasma CVD using a reactive gas comprising at least an organic silane,

wherein said gate insulating film contains halogen at a concentration of 5 x 10<sup>20</sup> cm<sup>-3</sup> or less and carbon at a concentration of 5 x 10<sup>19</sup> cm<sup>-3</sup> or less.

(New) A method of fabricating a semiconductor device, said method 31. comprising the steps of:

forming an interlayer insulating film comprising silicon oxide over a transistor, wherein the interlayer insulating film includes a halogen at a concentration of 5 x 10<sup>20</sup> cm<sup>-3</sup> or less and carbon at a concentration of 5 x 10<sup>19</sup> cm<sup>-3</sup> or less.

32. (New) A method of fabricating a semiconductor device according to claim 31, wherein the halogen is chlorine.

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- 33. (New) A method of fabricating a semiconductor device according to claim 31 wherein the halogen is fluorine.
- 34. (New) A method of fabricating a semiconductor device according to claim 31 wherein the interlayer insulating film is formed by plasma chemical vapor deposition using an organic silane.
- 35. (New) A method of fabricating a semiconductor device according to claim 31 wherein the interlayer insulating film includes halogen at a concentration of 1 x  $10^{17}$  cm<sup>-3</sup> or more.
- 36. (New) A method of fabricating a semiconductor device according to claim 31 wherein said transistor is a thin film transistor.